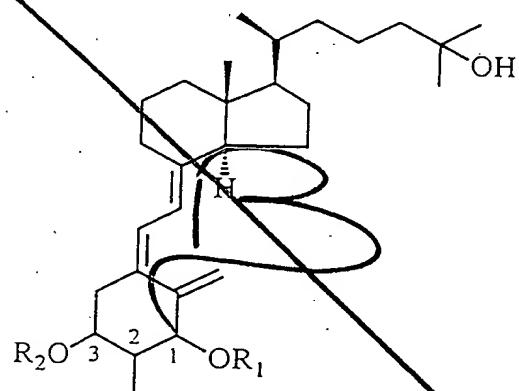


CLAIMS

1. 1, 25-dihydroxy-2-methylvitamin D₃ derivatives expressed by the following general formula (I),

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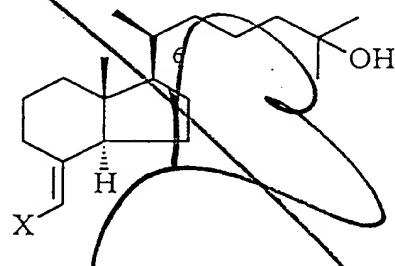
15

{wherein each of R₁ and R₂ is independently a hydrogen atom or a tri(C₁ to C₇ alkyl)silyl group, wherein configurations of asymmetric carbons at the 1-, 2- and 3-positions are each independently α -configuration or β -configuration}.

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2. A method for producing a vitamin D₃ derivative described in the claim 1, wherein an exo-methylene compound expressed by the following general formula (II),

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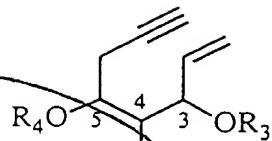


, and

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{wherein X is a bromine atom or an iodine atom} is made to react with an ene-yne compound expressed by the following general formula (III),

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wherein R_3 and R_4 are each independently a hydrogen atom or a tri(C_1 to C_7 hydrocarbon)silyl group} in the presence of a palladium catalyst, and
optionally the protecting group of the tri(C_1 to C_7 hydrocarbon)silyl group is removed.

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D